

# **ABSTRACT**

[0025] A method for indexing a plurality of ordered elements stored in bit-reversed order in a first and a second memory space, the first memory space indexed by a first memory index denoting memory positions in the first memory space, the second memory space indexed by a second memory index denoting memory positions in the second memory space, the logical position of the elements within the ordered elements indexed by an element index, the method including bit-reversing the element index of a selected element, locating the selected element as being in the first memory space where the MSB of the bit-reversed index equals 0 and the second memory space where the MSB of the bit-reversed index equals 1, and locating the position of the selected element within the MSB-located memory space at the memory index of the MSB-located memory space that corresponds to the non-MSB bits of the bit-reversed index.